DAILY FIELD ACTIVITY REPORT

PROJECT NAME: Pre-Remedial Design Investigation and Baseline Sampling, Portland Harbor Superfund Site

DATE: June 14, 2018	**WEATHER:** Mostly cloudy, High ~65 degrees F

Personnel and Visitors Onsite:
Research vessel Cayuse – CDM Smith: Julee Trump; AECOM: Michaela McCoog; Geosyntec: Alison Clemens; Gravity Marine: John Schaefer, Jeff Schut

Planned Activity:

- Collect surface sediment samples at stratified random, sediment management area (SMA), and co-located core locations near River Mile (RM) 4.6 east, and 8.6 to 9 east.

Activity Completed:
A tailgate safety meeting was led by AECOM. Focus topics discussed included hydration, fatigue from allergies, and lifting.

Julee Trump performed oversight of surface sediment sampling from 08:00 to 16:55 on board the Cayuse. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:

- Position checks at PH-2 indicated that the vessel GPS was reading within 1.3 meters of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP.
- 3-point composite surface sediment samples were collected from 5 SMA, co-located boring, and stratified random locations up the slip near RM 4.6 and from RM 8.6 to RM 9 as summarized below. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area.

Status of Schedule & Priority Work:

- Surface sediment sampling will continue tomorrow at locations with access agreements and returning to EPA approved locations previously attempted, but not sampled.
- Remaining sample locations include blocked or attempted locations that could not be sampled at the time, and locations on private property with none or recently procured access agreements. Sampling on private property locations will continue at locations with property access agreements.
- Sampling is taking more time than initially projected.

Issues/Concerns/Resolutions (include work performed that was not planned or anticipated):
Location SG-B307 (RM 8.9 E) was attempted, but not sampled. An alternate location is planned to be requested. 3 grabs were made in the 25 FT radius, all returning cobbles and rip rap with varying levels of washout. A 4th grab was made in the 50 FT radius, recovering about 15 cm of gravel with little silt and sand, but the jaws were partially open and no overlying water was present, so the grab was rejected. A metal pole was then used to probe the bottom along the half of the 50 FT radius that was away from the shoreline. Gravel areas seemed to be present (apparent by a crunching noise) and hard surfaces were present in the downstream end (apparent by a clink noise). J. Trump pointed out that gravel was not one of the hard substrates listed under “Bin 4” of the Sediment Recovery Criteria Table.

Location SG-B293, and 301 were behind a Navy floating fence with signs warning “US NAVY RESTRICTED AREA, USE OF FORCE AUTHORIZED.” AECOM was considering moving to alternate locations that were just outside of this restricted area. J. Trump recommended they discuss this access issue with the EPA before sampling alternative locations.

Samples Collected, Measurements Made, Photographs: (List Locations, Matrix & Sample type):
The following surface sediment samples were collected on the Cayuse:

- PDI-SG-S059 – RM 4.6 E, within 25 ft radius, silty sand with potential clay content, >15 clams, trace organics, trace metallic sheen.
- PDI-SG-S060 – RM 4.6 E, within 25 ft radius, sandy silt with black sand pockets and trace clay content, trace woody debris, sheet piling fragment, clams, trace sheen
- PDI-SG-B117-BL1 – RM 4.6 E, within 50 ft radius, sandy silt with black sand pockets, trace rainbow sheen, trace woody debris, plastic bag
- PDI-SG-B289-BL1 – RM 8.6 E, within 25 ft radius, Silt, trace woody organics
- PDI-SG-B304-BL1 – RM 8.9 E, within 25 ft radius, sandy and clayey silts, trace sheen, small luggage bag, woody debris

Note: Sediment descriptions are simplified and AECOM/Geosyntec provided more detailed sediment descriptions in their sampling notes.

Photographs of work were taken throughout the day and provided to EPA via email. Additional photos were taken and archived with a description included in the photolog Excel spreadsheet, which are maintained electronically in the ProjectWise project folder.

Borings Completed (Include total footage drilled for each boring):
None

Wastes Generated and How Handled:

- Excess sediment and debris in the power grab sampler and in the sampling bowls was rinsed back into the river per the FSP. No major sheen was observed.
- Disposable gloves, paper towels, and other general trash was containerized in a trash bag and removed daily for disposal to a municipal waste management dumpster.

Health and Safety Issues, Equipment Needs, Staffing:
The grab sampler suddenly dropped two times today. Which was determined to be operator inexperience with the winch controls, such as shutting off the power while the sampler was suspended. All staff were clear of the equipment and there was no apparent equipment damage. Gravity plans to perform additional checks just to verify nothing else may be damaged or have issues.

Signature: Julee Trump **DATE** June 14, 2018